

Amendments to the Specification

Please replace the Table 5 at page 57 with the following amended Table 5:

TABLE 5
Alignment of variable regions of spirochete flagellin proteins,
sequences in bold type have sequence identifiers as indicated¹.

	73	80	90	100	110	120	130
AbTx Fla ¹ SEQ ID NO:29	LRVQVGANQDEAIAVNIFSTNVANLFGGEGV	QAAPAQEGAGQEGVQP	APAGGISSPINVTTAIDAN				
AbNJ Fla: SEQ ID NO:30							
Bt Fla SEQ ID NO:31	---	YAA	---	A	---	VS	---
Bp Fla SEQ ID NO:32	---	YAS	---	A	---	VS	---
Ba Fla SEQ ID NO:33	---	YAA	---	A	---	ATPAPVA	P
Bh Fla SEQ ID NO:34	---	YAS	---	A	---	EG	---
Bc Fla SEQ ID NO:35	---	YAA	---	S	---	AQ	---
Bz Fla SEQ ID NO:36	---	YAA	---	A	---	AQAA	---
Bg Fla SEQ ID NO:37	---	YAA	---	S	---	AQAA	---
Bb Fla SEQ ID NO:38	---	YAA	---	S	---	AQTA	---

¹LRVQVGANQDEAIAVNIFSTNVANLFGGEGV, SEQ ID NO:15

QAAPAQEGAGQEGVQP; SEQ ID NO:16

APAGGISSPINVTTAIDAN; SEQ ID NO:17

AAPAPAA; SEQ ID NO:18

ATPAPVA; SEQ ID NO:19

AAPAPAS; SEQ ID NO:20

AQAA; SEQ ID NO:21

PTPAT; SEQ ID NO:22

PAPVT; SEQ ID NO:23

AQTA; SEQ ID NO:24

PAPAT; SEQ ID NO:25

Numbers correspond to amino acid positions of *B. lonestari* sp. nov. flagellin protein fragment of SEQ ID NO:2. Abbreviations and sources (accession numbers): Ab, *Ambllyomma borrelia* strains from Texas and New Jersey; Bt, *B. turicatae* (M67462); Bp, *B. parkeri* (M67461); Ba, *B. anserina* (X75201); Bh, *B. hermsli* (A44894 and M67460); Bc, *B. crocidurae* (X75204); Bz, *B. afzelii*; Bg, *B. garinii* (X75203); Bb, *B. burgdorferi* (X69611 and P11089); and Fla, flagellin.